

Resource Conservation and Recovery Act
Subtitle C, Compliance Evaluation/Land Disposal Inspection

Chevron Baltimore Asphalt Terminal
1955 Chesapeake Avenue
Baltimore, Maryland 21226

EPA RCRA I.D. No: MDD990686156

Inspected: March 28, 2011
Gerard Crutchley - OECEJ (3EC10)

Final Report - APR 12 2011

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Chevron Baltimore Asphalt Terminal
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Baltimore, Maryland 21226

EPA RCRA I. D. No: MDD990686156

Date of Inspection: March 28, 2011

EPA Representative:

Gerard Crutchley
Environmental Protection Specialist
(410) 305-2780

Maryland Department of the
Environment Representative:

Anthony Enweze
Hazardous Waste Enforcement Program
(410) 537-4245

Facility Representatives:

Douglass Jennings
Terminal Manager
(410) 576-3713

Hank Mondowney
Head Operator

Background

The EPA, Region III's Office of Enforcement, Compliance and Environmental Justice at Fort Meade, Maryland received a request from EPA, Region III's Land and Chemicals Division to conduct a RCRA, Subtitle C, Compliance Evaluation/Land Disposal Restrictions Inspection at the Chevron Baltimore Asphalt Terminal located in Baltimore, Maryland. The inspection was assigned to Gerard Crutchley. Included with the request was information which indicated that the facility is a Large Quantity Generator. The enforcement program requested a process based inspection which identifies all waste streams (including non-hazardous) and how each waste stream is managed by the generator. The information indicated that the facility might have some refining type processes. The information also indicated that the facility had not been inspected since 1991. Prior to conducting the subject inspection, the EPA inspector contacted the Maryland Department of the Environment (MDE) to notify them of the upcoming inspection. At that time the EPA inspector requested a copy of the report from the last inspection of the facility conducted by MDE. The EPA inspector did speak with Mr. Anthony Enweze, who said that he would accompany EPA during the inspection. The EPA inspector also received an e-mail from MDE which contained a copy of the report from the most recent MDE inspection of the subject facility. The report indicated that the facility was last inspected in July 2010. Based on the information included in the report, it appears that the facility is just an asphalt storage facility and does not have any refining processes (See Attachment No. 1). The facility was not notified prior to the inspection.

Inspection Observations

The EPA and State inspectors arrived at the facility on March 28, 2011 at approximately 0930 and announced the inspection to facility personnel. The inspectors met with Mr. Doug Jennings, Terminal Manager and Mr. Hank Mondowney, Head Operator. The EPA inspector presented his credentials to Mr. Jennings identifying him as an authorized representative of the Agency. The EPA inspector next provided the facility personnel with a brief description of the purpose and scope of the subject inspection. The EPA inspector then asked facility personnel to provide a description of the facility, including all activities that occur on site and what wastes are generated as a result of facility operations. Mr. Jennings provided most of the following information.

Mr. Jennings said that the facility is basically an asphalt storage and distribution terminal. They only have six employees. He said that liquid asphalt is delivered to the facility by barge, is then off-loaded into one of four storage tanks and is subsequently loaded into tanker trucks and delivered to customers. Of the four storage tanks, three have a capacity of 150,000 barrels (42 gallons per barrel) each and the fourth has a capacity for 55,000 barrels. He stated that the daily operations do not generate any hazardous waste. He further stated that the only time hazardous waste is generated is when a storage tank is removed from service and cleaned out. The EPA inspector asked Mr. Jennings about how often an in service tank is cleaned out. Mr. Jennings said that according to American Petroleum Tank (API) guidelines/regulations an internal

inspection of each tank is required every twenty years. He said the last inspections occurred in 1993. The only other time that a tank is shutdown is when they experience a problem with a tank. All of the tanks on site are aboveground tanks. There are no underground tanks at the facility.

When asked about any refining type operations, Mr. Jennings said that at one time the facility did operate as an asphalt production and petroleum refining, but those operations were phased out over ten to fifteen years ago. Mr. Jennings also said that the company is currently involved in some type of site remediation work. Mr. Jennings said that the facility is working with MDE as part of the Maryland Department of the Environment's Voluntary Cleanup Program. Subsequent to the actual inspection, the EPA inspector contacted Ms. Irena Rybak with MDE's Environmental Restoration and Redevelopment Program. Ms. Rybak briefly described the project to the EPA inspector and directed him to the MDE website where a fact sheet is available regarding the project. A copy of the fact sheet is attached to this report (See Attachment No. 2). The ongoing project involves adjacent portions of the property formerly owned and used by Chevron. The project, as described in the attached fact sheet, does not impact the current operations at the facility.

In addition to the four active storage tanks on site, there are seven out of service tanks. Mr. Jennings said that these tanks have been out of service for about ten years. He also stated that all of the out of service tanks were cleaned out at the time they were removed from service and the materials removed from those tanks were removed from the site for proper disposition.

Mr. Jennings next described the methods for cleaning a tank when it is shutdown. Basically there are two approaches to cleaning out a tank. The first is to pump out any usable product from a tank and allow any remaining material to solidify. The tank is then opened and the solid material is manually removed from the tank. The second approach is to pump out any usable product, and then add a solvent to the remaining material in the bottom of the tank to liquify the asphalt and then pump that material out of the tank into frac tanks for removal off site. Mr. Jennings said that a tank is generally out of service for about two months when being cleaned.

Mr. Jennings said that they do generate a small amount of fluorescent bulbs. He said that they remove the bulbs and send them to their New Jersey refining facility where they arrange for proper disposal.

Mr. Jennings said that the large contained areas around the storage tanks have an under drain system to collect storm water which is directed to a large oil/water separator unit. The storm water flows through the separator and is then pumped to a lined pond near the east side of the property. The water from the pond is eventually discharged to the Patapsco River as per an NPDES discharge permit maintained by the facility.

Although the facility does not generate any hazardous waste on a regular basis, they maintain their Large Quantity Generator status for when they do a tank cleanout.

The EPA inspector asked Mr. Jennings about training for the facility employees. Mr. Jennings and Mr. Mondowney both said that training is provided via a corporate, computer based training that is required for all employees once per year. The training consists of general training regarding proper waste handling and the required paperwork (e.g. manifests) and records of the training are maintained on the computer.

The EPA inspector then asked Mr. Jennings about a contingency plan for the facility waste operations. Mr. Jennings said that they maintain a Facility Response Plan (FRP) and a Pre-Fire Plan. The EPA inspector reviewed both plans and noted that the FRP appeared to contain all required elements to respond to spills at the facility such as a current listing of the emergency coordinators, a listing of emergency response equipment, and evacuation plan and the procedures for responding to spills. This plan was last updated in July 2010. The facility's Pre-Fire Plan contains the emergency procedures to be followed in the event there is a fire at the facility. This plan, dated 10/22/07, does require updating, as the list of facility response personnel is out of date. Mr. Jennings stated that they are currently working with a consulting engineer to up date the plan. He then showed the inspector copies of updates received from the consulting engineer for review by the facility.

The EPA inspector asked Mr. Jennings how they characterize their waste streams when they do generate waste. Mr. Jennings said they characterize the waste streams based on analytical testing which is done by the facility's waste contractors.

As far as waste generation, the facility maintains a log for each calendar year which contains the type and amounts of waste generated on a yearly basis. A separate log is maintained for both non-hazardous waste and hazardous waste. The EPA inspector reviewed the waste logs and noted that the last time hazardous waste was generated was in 2009. According to Mr. Jennings the waste generation in 2009 resulted from decommissioning a large storage tank that was previously used as a storage tank for excess storm water that could not be immediately processed through the facility's oil/water separator unit. Mr. Jennings said that apparently over a period of time, a large amount of sludge had built up in the bottom of the tank. In 2009, the facility had the sludge analyzed and determined that it was hazardous waste based on the level of metals in the sludge. The sludge was classified as F038 sludge (Petroleum refinery secondary oil/water/solids separation sludge). Beginning in November 2008, a large hole was cut into the side of the tank near the base to facilitate the removal of the sludge. From November 2008 to December 2008, the facility waste contractor filled seven large frac tanks with the sludge. These tanks were stored on site and subsequently shipped off site from 1/12/2009 to 2/19/2009. While the tanks were on site, facility personnel inspected the tanks once per week and maintained a log documenting the findings of each inspection. During the subject inspection, the EPA inspector reviewed the inspection logs and noted that they were well maintained and appeared to contain all applicable information. An example of the inspection logs is provided as an attachment to this report (See Attachment No. 3). Along with the inspection logs, the facility maintained a hazardous waste shipment log and copies of all the hazardous waste shipment manifests. During the inspection, the EPA inspector reviewed the shipment log (See Attachment No.

4) and the waste manifests. These documents appeared to contain all required information and were well maintained. An example of one of the waste manifests is provided as an attachment to this report (See Attachment No. 5). The EPA inspector did note that there were no land disposal notification/certification forms attached to the waste manifests and these forms were not maintained on file at the facility.

More recently, from February 2011 to March 2011, the facility did generate some waste material from cleaning out a tank and a transfer line. These wastes were classified as non-hazardous based on analytical testing. Mr. Jennings provided the EPA inspector with a copy of the analytical results from this testing (See Attachment No. 6), a copy of the non-hazardous waste tracking log (See Attachment No. 7), and an example of a non-hazardous waste shipment manifest (See Attachment No. 8).

Following these discussions, the EPA and State inspectors accompanied by the facility personnel toured the facility to observe the operations as described by Mr. Jennings. Just outside of the facility's office is the truck loading station (See Photo No. 1). Mr. Jennings said that the loading is based on weight. An empty truck entering the facility is first weighed and then pulls up to the load station. Once filled, the truck is again weighed and that determines the cost for each shipment. Mr. Mondowney said there is no waste generated at this location. He did say that small amounts of liquid asphalt might drip from the truck fill lines, but the facility uses 5 gallon metal buckets to capture the drips (See Photo No. 2) and that material is then placed back into storage. Beyond the truck loading area, the EPA inspector observed the three 150,000 barrel storage tanks (See Photo No. 3) located on the north side of the facility, and just to the south of these tanks, the inspector observed the 55,000 barrel storage tank (See Photo No. 4). The inspectors did observe a large out of service tank on the east side of the property (See Photo No. 5). Mr. Jennings said that this tank is the one that contained the hazardous waste that was removed from the facility in 2009. Mr. Jennings and Mr. Mondowney both pointed out an open area between the storage tanks that is used as the facility's less than 90 day accumulation area (See Photo Nos. 5 & 6). On the south side of the property, the inspectors observed the oil/water separator unit which, according to Mr. Jennings, collects all of the storm water from the site (See Photo No. 7). The EPA inspector asked Mr. Jennings what happens to any oil that is removed in the separator unit. Mr. Jennings said that they very seldom see any oil in the unit and none has ever needed to be removed from the unit. As discussed earlier during the inspection, the water from the separator unit is pumped to a pond located on east side of the property (See Photo No. 8). The pond has a rubber liner. Water from the pond flows into one of two large standpipes located adjacent to the pond. The water in this pipe eventually rises and then overflows into a second standpipe (See Photo No. 9). The water from this standpipe is then discharged to the Patapsco River (See Photo No. 10) as per the facility's NPDES discharge permit.

**Maryland Department of the Environment
Land Management Administration**

Attachment No. 1

Report of Observation

Facility: Chevron Baltimore Asphalt Terminal

Contact: Hank Mondowney, Head Operator
Doug Jennings, Operations Manager

Address: 1955 Chesapeake Avenue
Baltimore, MD 21226

EPA ID: MDD990686156, LQG/NH

Telephone : (410) 576-3706
(410) 576-3713

Date of inspection: July 27, 2010

Time in: 9:25 AM **Time out:** 9:55 AM

Inspector: Michele Bynum, MDE, Hazardous Waste Program

Purpose of inspection: RCRA C Compliance Evaluation

The Chevron Asphalt Terminal stores ready made asphalt. Tankers truck the asphalt off site.

Inspection

I met with Mr. Hank Mondowney, Head Operator for the Chevron Asphalt Terminal.

We proceeded to a small meeting room for a discussion of the facility waste streams and document review. I reviewed the contingency plan and found it was missing emergency response contact numbers. Mr. Mondowney stated that he posted the emergency response numbers on his desktop for ready access.

Hazardous waste (HW) manifests were in order, and signed return forms were attached to original documentation.

Training records were unavailable for immediate review but will be forwarded shortly.

HW and universal waste (UW) disposal is transported to the Chevron headquarters in Perth Amboy, N.J. Disposal in N.J. is by Bethlehem Lamp Recycling Co., Bethlehem, PA.

Summary

The facility has decreased its HW generation, and disposed of previously stored HW during a tank decommission in January-February 2009. As stated by Mr. Jennings in correspondence dated August 3, 2010, the decommissioning was overseen by Chevron and URS, and contracted to Allstate Power Vac, Inc. The HW was handled by Waste Management. The facility only generates HW during tank clean up procedures, but keeps the large quantity generator status in the event of spill or tank cleaning.

One COMAR violation was observed during the inspection; 26.13.05.04 C (4), and was quickly brought into compliance.

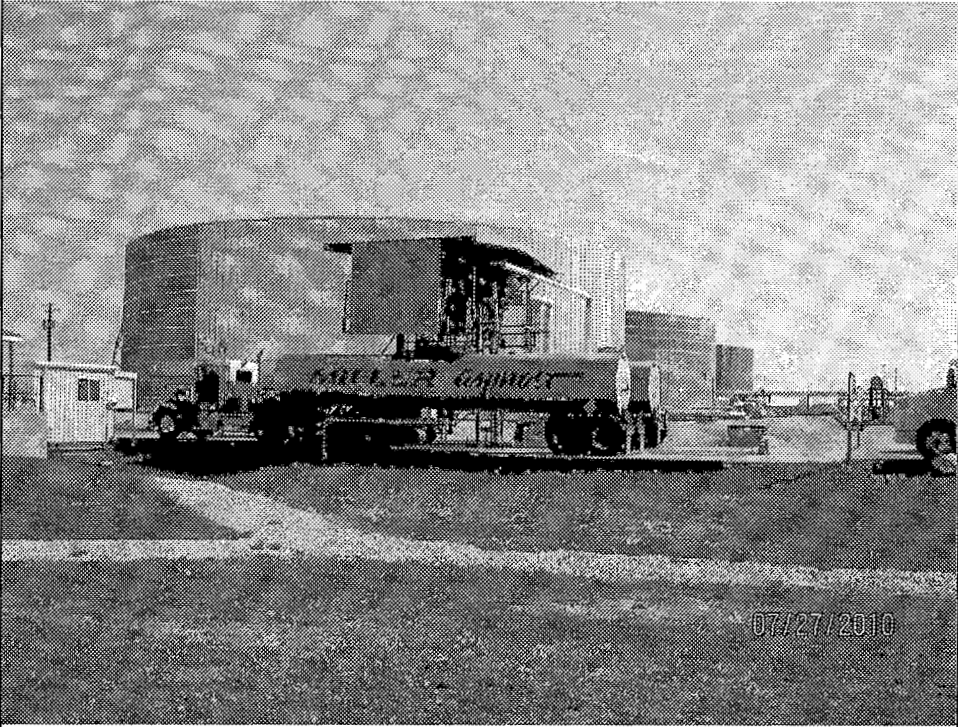
Attachments

Field note – Michele Bynum, HWP Inspector

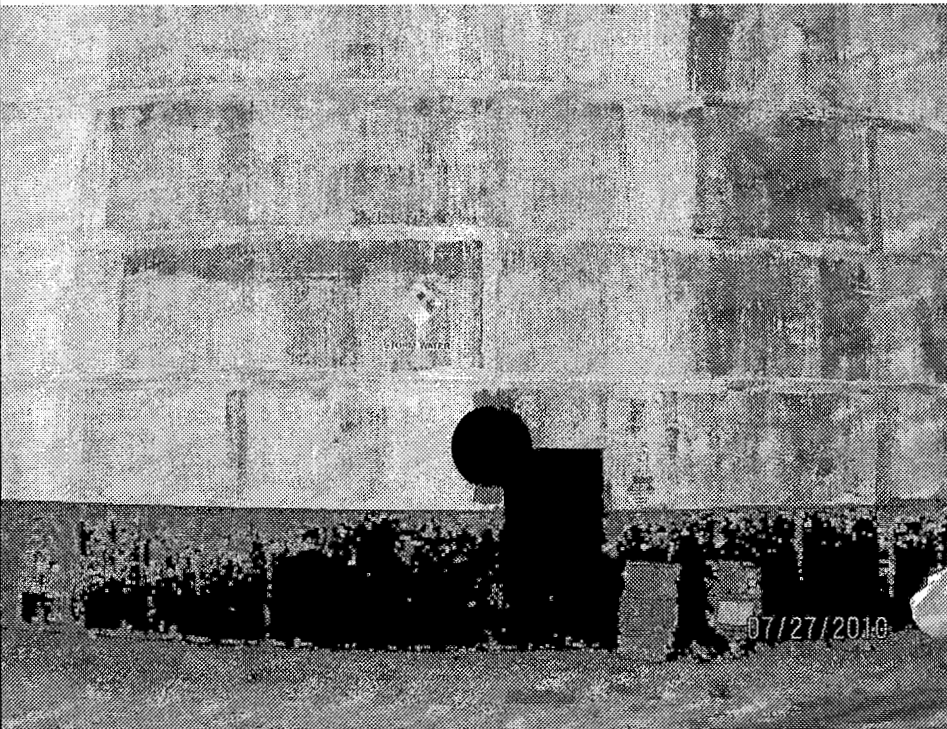
Photos

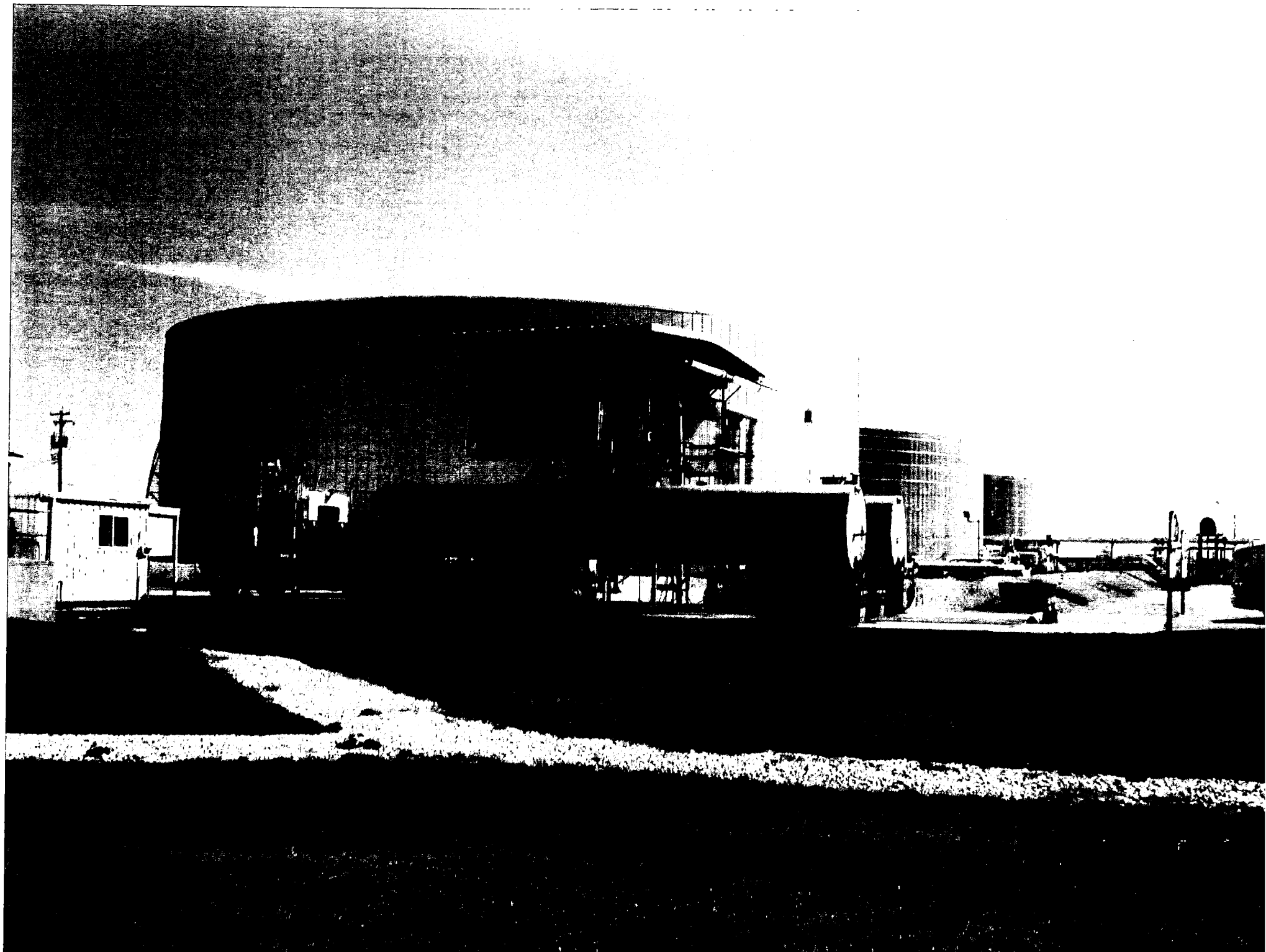
Copy of hazardous waste manifest #003901838 JJK

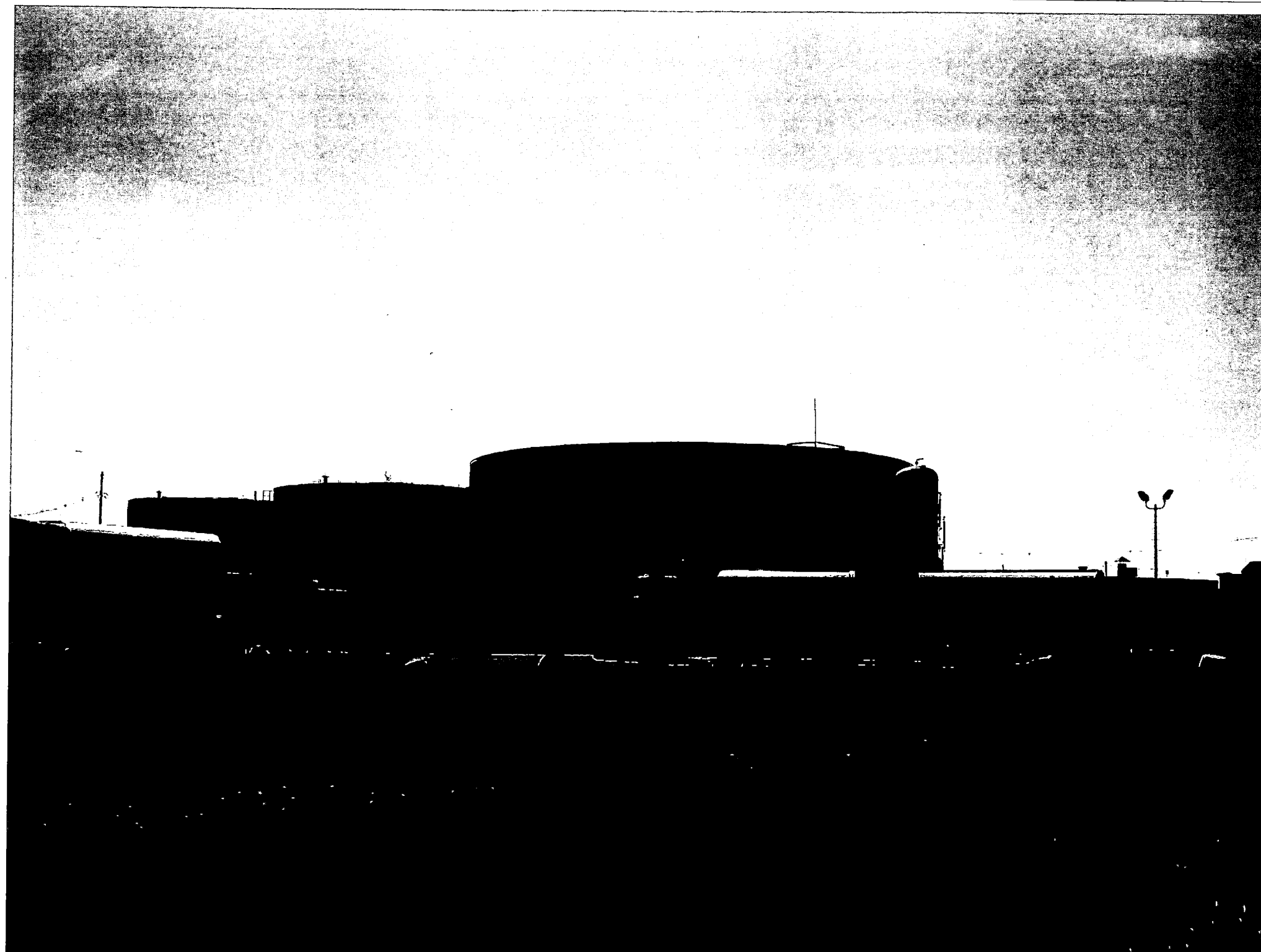
Maryland Department of the Environment (MDE)
Hazardous Waste Program
Official Photograph Sheet

Location:	Chevron Baltimore Asphalt Terminal, 1955 Chesapeake Ave. Baltimore, MD 21226						
Photographer:	Michele Bynum			Witness:	n/a		
Photo #	1	Of	2	Date:	7/27/2010	Time:	9:47 AM
Description:	Chevron Terminal pumping station						
							

Maryland Department of the Environment (MDE)
Hazardous Waste Program
Official Photograph Sheet

Location:	Chevron Baltimore Asphalt Terminal, 1955 Chesapeake Ave. Baltimore, MD 21226						
Photographer:	Michele Bynum				Witness:	n/a	
Photo #	2	Of	2		Date:	7/27/2010	Time: 9:50 AM
Description:	Decommissioned tank						
							





STORM WATER



07/27/2010

Training Delivered By Employee

63ISOUEK	1	Isolation SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63ISOLEK	1	Isolation SWP - Knowledge Level - North America	10/29/2009	100	4.00	0.00
509	1	Lockout/Tagout ESHWP	11/11/2008	94	1.00	0.00
505	1	Management of Change (MOC) ESHWP	09/02/2009	90	1.00	0.00
63MSWPEK	1	Managing Safe Work Practices (SWP) Overview - Knowledge Level	10/30/2009	100	1.00	0.00
A07MOP	1	Managing Terminal Records	09/28/2009	100	0.00	0.00
A04MOP	2	Managing Waste	08/07/2009	100	1.00	0.00
530	1	Mobile Equipment ESHWP	09/27/2009	90	0.00	0.00
63MVSBEA	2	Motor Vehicle Safety Booklet - North America	08/06/2009	100	0.50	0.00
13MNHEEA	1	MVS Awareness Training for Non-High Exposure Drivers (Non-HED)	08/04/2009	100	1.50	0.00
12TOIHEA	1	New Terminal Operator Induction Handbook - Awareness	12/31/2008	100	1.50	0.00
14NICWEK	1	New to Chevron Workshop	12/31/2007	100	24.00	0.00
63OESWEA	1	OE Starts with Me Employee Awareness Training North America	08/04/2009	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	04/16/2010	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	08/04/2009	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	03/17/2006	100	1.00	0.00
004	1	OPA 1990 Overview and Annual Drills	07/09/2009	100	4.00	0.00
511	1	Personal Protective Equipment	07/29/2009	100	1.00	0.00
620	1	Pollution Prevention ESHWP	08/06/2009	100	1.00	0.00
5004	G	Portable Fire Extinguishers	01/10/2007	92	1.50	0.00
14PSEREA	1	Product Stewardship Expectations & Responsibilities	10/13/2009	100	1.00	0.00
14PSGAEA	2	Product Stewardship General Awareness Training	09/19/2009	100	0.50	0.00
63RSIPEA	1	Repetitive Stress Injury Prevention RSIP Workforce Orientation -En -Aw	07/29/2009	100	0.50	0.00
002	2	Shiftwork and Fatigue	08/04/2009	100	1.00	0.00
837	1	Smith System Defensive Driver Training (In-car)	07/17/2008	100	4.00	215.00
837	1	Smith System Defensive Driver Training (In-car)	12/08/2006	100	6.00	0.00
11SVFMEA	1	Smith System Refresher CBT (Small Vehicle/Forward Motion)	08/08/2009	100	1.50	0.00
12TGAEAA	1	Tank Gauging and Alarm Equipment - Awareness Level	10/13/2009	100	0.00	0.00
12TKOFEK	1	Tank Overfill Protection - Terminal Manifold to Tank - Knowledge Level	10/30/2009	91	2.50	0.00

RFED

Debra Hunter

Training Delivered By Employee

63GADEEK	1	Gas Detection SWP - Knowledge Level - North America	11/05/2009	100	4.00	0.00
12GBSTEK	1	Gauging Bulk Storage Tanks - Knowledge	10/21/2009	93	1.00	0.00
12GBSTEO	1	Gauging Bulk Storage Tanks - Operational	10/21/2009	100	1.00	0.00
63GWPUK	1	General Work Permit SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63GEPEEK	1	General Work Permit SWP - Knowledge Level - NA	12/11/2009	100	4.00	0.00
516	1	Hazard Communication Training	07/29/2009	100	0.00	0.00
540	1	Hazardous Materials Transportation ESHWP	07/22/2008	100	0.50	0.00
550B	1	HAZWOPER - Awareness FMT Module	07/26/2008	100	2.50	0.00
550C1	2	HAZWOPER - First Responder - Operations INITIAL	07/09/2009	100	24.00	0.00
550C	1	HAZWOPER - Operations FMT Module	07/26/2008	100	4.00	0.00
550A	1	HAZWOPER - Overview FMT Module	07/26/2008	100	2.50	0.00
518	1	Hearing Protection ESHWP	07/29/2009	100	0.00	0.00
13HEIPEA	1	Heat Illness Prevention - Awareness	01/28/2010	100	0.50	0.00
63HWKUEK	1	Hot Work SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63HTWKEK	1	Hot Work SWP - Knowledge Level - North America	12/11/2009	100	4.00	0.00
5029	C	Hydrogen Sulfide: Exploration and Production	09/03/2009	92	3.00	0.00
13HREEA	1	Incident Investigation Reporting (IIR) Employee Awareness	07/26/2008	100	1.00	0.00
112MOP	1	Inspecting Air System	10/20/2009	94	0.00	0.00
125MOP	1	Inspecting and Maintaining Electric Gates	09/03/2009	100	0.00	0.00
109MOP	1	Inspecting Fire Protection Equipment	09/24/2009	93	0.00	0.00
101MOP	5	Inspecting Tank Yard	09/23/2009	90	0.00	0.00
63ISOUK	1	Isolation SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63ISOLEK	1	Isolation SWP - Knowledge Level - North America	12/14/2009	100	4.00	0.00
505	1	Management of Change (MOC) ESHWP	09/23/2009	95	1.00	0.00
63MSWPEK	1	Managing Safe Work Practices (SWP) Overview - Knowledge Level	09/01/2009	100	1.00	0.00
A07MOP	1	Managing Terminal Records	09/23/2009	91	0.00	0.00
A04MOP	2	Managing Waste	09/03/2009	92	1.00	0.00
530	1	Mobile Equipment ESHWP	09/23/2009	90	0.00	0.00
63MVSBEA	2	Motor Vehicle Safety Booklet - North America	02/27/2009	100	0.50	0.00
13MNHIEA	1	MVS Awareness Training for Non-High Exposure Drivers (Non-HED)	09/26/2008	100	1.50	0.00
12TOIHEA	1	New Terminal Operator Induction Handbook - Awareness	12/31/2008	100	1.50	0.00
14NTCWEK	1	New to Chevron Workshop	12/31/2007	100	24.00	0.00

Doug Jennings

Training Delivered By Employee

50292	G	Hydrogen Sulfide: General Industry	11/02/2006	93	1.00	0.00
50292	G	Hydrogen Sulfide: General Industry	11/28/2005	93	1.00	0.00
50292	G	Hydrogen Sulfide: General Industry	11/10/2004	93	3.00	0.00
50292	G	Hydrogen Sulfide: General Industry	10/29/2003	93	3.00	0.00
13HREEA	I	Incident Investigation Reporting (I&R) Employee Awareness	06/24/2008	100	1.00	0.00
13HREEA	I	Incident Investigation Reporting (I&R) Employee Awareness	04/06/2006	100	0.00	0.00
13HRESE	I	Incident Investigation Reporting (I&R) Supervisor Awareness Trn	10/21/2008	100	2.00	0.00
14IPUAEA	I	Information Protection User Awareness	02/14/2006	100	0.00	0.00
12IFTKEK	I	Initial Filling of a Tank or Re-Floating a Roof - Knowledge Level	12/09/2009	93	2.50	0.00
63ISOUKEK	I	Isolation SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63ISOLEK	I	Isolation SWP - Knowledge Level - North America	10/08/2009	100	4.00	0.00
505	I	Management of Change (MOC) ESHWP	09/03/2009	100	1.00	0.00
860	I	Manager's Desktop (MDT)	01/15/2009	100	1.50	0.00
14ANHSEK	I	Managing a Harassment-Free and Diverse Workplace (Supervisor)	09/03/2008	100	4.00	0.00
63MSWPEO	I	Managing Safe Work Practices (SWP) - Operational Level	12/31/2008	100	16.00	0.00
63MSWPEK	I	Managing Safe Work Practices (SWP) Overview - Knowledge Level	11/02/2009	100	1.00	0.00
A04MOP	2	Managing Waste	08/05/2009	92	1.00	0.00
14MCPGEA	I	MCPG (Manual of Compliance Procedures and Guidelines)	03/13/2006	100	1.00	0.00
530	I	Mobile Equipment ESHWP	08/05/2009	90	0.00	0.00
63MVSBEA	2	Motor Vehicle Safety Booklet - North America	02/18/2009	100	0.50	0.00
13MHEDEA	I	MVS Awareness Training for Higher Exposure Drivers (HED)	06/11/2008	100	1.00	0.00
14NTCWEK	I	New to Chevron Workshop	12/31/2007	100	24.00	0.00
13OELREA	I	OE Leadership Roles & Behaviors Sessions	11/29/2005	100	5.00	0.00
13OERCEK	I	OE Regular Certification: LRBS & Computer Based Training Modules 1-4	03/18/2009	100	9.00	0.00
055	I	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	12/11/2009	100	1.00	0.00
055	I	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	12/24/2008	100	1.00	0.00
004	I	OPA 1990 Overview and Annual Drills	07/09/2009	100	4.00	0.00
63PICOE0	I	Permit Issuer's Competency Observation - North America	11/06/2008	100	1.00	0.00
511	I	Personal Protective Equipment	07/27/2009	100	1.00	0.00

Bernie Lindemann
Training Delivered By Employee

509	1	Lockout/Tagout ESHWP	03/18/2008	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	01/30/2007	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	02/13/2006	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	03/13/2005	94	1.00	0.00
505	1	Management of Change (MOC) ESHWP	08/19/2009	90	1.00	0.00
63MSWPEO	1	Managing Safe Work Practices (SWP) - Operational Level	12/31/2008	100	16.00	0.00
63MSWPEK	1	Managing Safe Work Practices (SWP) Overview - Knowledge Level	11/25/2009	100	1.00	0.00
A07MOP	1	Managing Terminal Records	10/07/2009	91	0.00	0.00
A04MOP	2	Managing Waste	08/05/2009	92	1.00	0.00
530	1	Mobile Equipment ESHWP	08/20/2009	100	0.00	0.00
63MVSBEA	2	Motor Vehicle Safety Booklet - North America	02/27/2009	100	0.50	0.00
13MNHIEA	1	MVS Awareness Training for Non-High Exposure Drivers (Non-HED)	06/10/2008	100	1.50	0.00
12TOIHEA	1	New Terminal Operator Induction Handbook - Awareness	12/31/2008	100	1.50	0.00
14NTCWEK	1	New to Chevron Workshop	12/31/2007	100	24.00	0.00
63OESWEA	1	OE Starts with Me Employee Awareness Training North America	08/01/2009	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	08/07/2009	100	1.00	0.00
63PICOEO	1	Permit Issuer's Competency Observation - North America	11/06/2008	100	1.00	0.00
511	1	Personal Protective Equipment	07/28/2009	100	1.00	0.00
620	1	Pollution Prevention ESHWP	08/05/2009	100	1.00	0.00
5004	G	Portable Fire Extinguishers	12/07/2006	92	1.50	0.00
5004	G	Portable Fire Extinguishers	08/31/2005	92	1.50	0.00
5004	G	Portable Fire Extinguishers	07/09/2004	91	4.00	0.00
5004	G	Portable Fire Extinguishers	03/04/2003	97	4.00	0.00
5004	G	Portable Fire Extinguishers	04/09/2002	94	4.00	0.00
14PSEREA	1	Product Stewardship Expectations & Responsibilities	08/19/2009	100	1.00	0.00
14PSGAEA	2	Product Stewardship General Awareness Training	12/17/2009	100	0.50	0.00
63RSIPEA	1	Repetitive Stress Injury Prevention RSIP Workforce Orientation -En -Aw	07/30/2009	100	0.50	0.00
517	1	Respiratory Protection ESHWP	04/10/2002	100	0.00	0.00
002	2	Shiftwork and Fatigue	07/30/2009	100	1.00	0.00
837	1	Smith System Defensive Driver Training (In-car)	07/24/2008	100	4.00	215.00
837	1	Smith System Defensive Driver Training (In-car)	12/08/2006	100	6.00	0.00

RFED

Hand Memo

Training Delivered By Employee

109MOP	1	Inspecting Fire Protection Equipment	10/09/2009	93	0.00	0.00
101MOP	3	Inspecting Tank Yard	08/19/2009	95	0.00	0.00
63ISOUEK	1	Isolation SWP - 2009 UPDATES	12/31/2008	100	1.00	0.00
63ISOLEK	1	Isolation SWP - Knowledge Level - North America	08/10/2009	100	4.00	0.00
548	1	Laboratory Safety Practices ESHWP	12/05/2008	100	1.50	0.00
548	1	Laboratory Safety Practices ESHWP	12/27/2007	100	0.00	0.00
548	1	Laboratory Safety Practices ESHWP	02/02/2006	100	1.50	0.00
548	1	Laboratory Safety Practices ESHWP	02/18/2005	100	1.50	0.00
548	1	Laboratory Safety Practices ESHWP	02/04/2004	97	8.50	0.00
548	1	Laboratory Safety Practices ESHWP	03/02/2003	97	8.50	0.00
548	1	Laboratory Safety Practices ESHWP	04/06/2002	97	8.50	0.00
509	1	Lockout/Tagout ESHWP	12/04/2008	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	12/26/2007	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	01/30/2006	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	02/11/2005	100	1.00	0.00
509	1	Lockout/Tagout ESHWP	02/03/2004	100	2.50	0.00
509	1	Lockout/Tagout ESHWP	02/20/2003	100	2.50	0.00
505	1	Management of Change (MOC) ESHWP	07/30/2009	90	1.00	0.00
63MSWPEO	1	Managing Safe Work Practices (SWP) - Operational Level	12/31/2008	100	16.00	0.00
63MSWPEK	1	Managing Safe Work Practices (SWP) Overview - Knowledge Level	12/02/2009	100	1.00	0.00
A07MOP	1	Managing Terminal Records	08/17/2009	91	0.00	0.00
A04MOP	2	Managing Waste	02/04/2010	92	1.00	0.00
A04MOP	2	Managing Waste	07/30/2009	100	1.00	0.00
530	1	Mobile Equipment ESHWP	07/31/2009	100	0.00	0.00
63MVSBEA	2	Motor Vehicle Safety Booklet - North America	02/25/2009	100	0.50	0.00
13MNHEEA	1	MVS Awareness Training for Non-High Exposure Drivers (Non-HED)	06/11/2008	100	1.50	0.00
12TOIHEA	1	New Terminal Operator Induction Handbook - Awareness	12/31/2008	100	1.50	0.00
14NTCWEK	1	New to Chevron Workshop	12/31/2007	100	24.00	0.00
63OESWEA	1	OE Starts with Me Employee Awareness Training North America	07/29/2009	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	01/25/2010	100	1.00	0.00
055	1	OES RSI Risk Assessment (formerly Workwell) - Office Ergonomics	03/16/2009	100	1.00	0.00
004	1	OPA 1990 Overview and Annual Drills	07/09/2009	100	4.00	0.00
63PICOEO	1	Permit Issuer's Competency Observation - North America	11/06/2008	100	1.00	0.00

3.0 EMERGENCY RESPONSE INFORMATION

3.1 Notifications

The agencies listed in Table ERAP-1 will be notified by our employees IMMEDIATELY, but not later than two (2) hours after detection of a spill.

The following Company individual(s) will be notified in the event of a spill:

<u>Name</u>	<u>Work Phone</u>	<u>Cell Phone</u>
1. Doug Jennings	(410) 576 3713	(410) 808-6229
2. Kevin Mc Mahon* (will make notifications as required to Corporate)	(732) 738 2048	(732) 558-8503
3. Thomas Depko	(732) 738 2234	(732) 558 1771

*Other Corporation notifications and/or requests for additional support will be made as required.

TABLE ERAP-1

Emergency Notification Phone List Whom To Notify

Date of Last Update: March 2010

Reporter's Name: _____

Date: _____

Facility Name: Chevron Baltimore Asphalt Terminal

Owner Name: Chevron Products Company

Facility Identification Number: MDD990686156

Date and Time of Each NRC Notification: _____

<u>ORGANIZATION</u>	<u>PHONE NUMBER</u>
1. National Response Center (NRC)	1-800-424-8802
2. Qualified Individuals	See Table ERAP-6
3. U.S. Coast Guard	(410) 576-2693
4. Federal On-Scene Coordinator	EPA Region III Regional Response Center (215) 814-9016

TABLE ERAP-1 (Cont'd)

Emergency Notification Phone List Whom To Notify

5.	Local Response Teams	Triumvirate Environmental (410) 636-3700 Marine Spill Response Corp. (732) 346-2450 (daytime) if reach voicemail, press zero (0) (800) 259-6772 contract #6 CHUSA01
6.	Local Police, Fire	911
7.	State Police	(410) 575-6540
8.	Maryland Emergency Management Agency	(410) 517-3600
9.	MD Dept. of the Environment, Emergency Response	(866) 633-4686
10.	Local Emergency Planning Committee (LEPC)	(410) 396-3597
11.	Local Water Supply System	City of Baltimore Water Department (410) 396-5352
12.	National Weather Service	(703) 260-0106
13.	Local Television/Radio Station for Evacuation Notification	WBAL (410) 467-3000
14.	Hospitals	Harbor Hospital (410) 350-3200 St. Agnes Hospital (410) 368-6000

All releases of a hazardous substance regulated under CERCLA/SARA over the reportable quantity (RQ) which escape into the environment must be reported to the National Response Center and MDNR as noted in this table.

The following Spill Response Notification Form (Table ERAP-2) will be completed each time a reportable spill occurs. Copies of the form are also available at the locations from which notifications may be made (i.e. dock and office).



Facts About...

**Chevron U.S.A. Inc., Operating Yard,
Baltimore Asphalt Terminal
(Voluntary Cleanup Program)**

Site Location

This active 8.67-acre property, located at 1955 Chesapeake Avenue, Baltimore, Maryland, is in the industrialized Fairfield District of Baltimore City. Petroleum refining related businesses and terminal activities for staging imported vehicles surround the property. Storm water runoff from the property flows towards the storm water system that discharges to the Patapsco River, located east of the property. Groundwater beneath the property also flows towards the Patapsco River. The property and vicinity are served by municipal water and sewer systems.

Site History

The property was undeveloped until approximately 1902. A petroleum refinery owned and operated by Prudential Oil, followed by Continental Oil Company (Conoco) was located on the southern part of the property from 1912 to 1946. American Bitumuls Company used the southern part of the property for asphalt production and petroleum refining operations until 1957 when Chevron took ownership of the property and continued the asphalt production and petroleum refining operations. A fertilizer plant was located on the northern part of the property until 1973, when Chevron bought this part of the property from Royster Company to expand its operations. In 1983, Chevron suspended all crude oil refining operations but continued to use the western part of the property as an asphalt terminal. A number of operating office buildings, in-use and formerly used aboveground storage tanks (ASTs) and associated pipe racks, and an asphalt truck loading rack are located on the western part of the property. Asphalt cement products are received from barge or ship, stored in four ASTs, and are loaded to customers' trucks via the loading racks. The eastern part of the property is paved and leased for staging of imported vehicles.

Environmental Investigations

During numerous environmental site investigations between 1983 and 2008 at the entire Chevron facility (including the separated West Yard and Excess East Yard properties located west and south of the Operating Yard), contamination was detected in soil and groundwater above the Department's cleanup standards at the property. In 1988, soil impacted by a benzene release from an aboveground pipeline in the southern part of the property was remediated on-site.

Chevron completed a Phase I and Phase II Environmental Site Assessment in March 2009 for the Voluntary Cleanup Program (VCP) application. The principal contaminants identified in soil and groundwater were volatile organic compounds, semi-volatile organic compounds, and metals. Light non-aqueous phase liquids (LNAPLs) are present in the groundwater at the southern boundary of the property and extend on to the Excess East Yard property.

Current Status

In March 2009, the Chevron Environmental Management Company submitted a VCP application for the property seeking a Certificate of Completion as a responsible person. A Phase I and Phase II Environmental Site Assessment report was submitted with the VCP application. The Department issued comments on the VCP application in April 2009. An additional site assessment is being required by the VCP. The CHS Enforcement Division will oversee the required off-site assessment. Future use for the property will continue as industrial. The adjacent Chevron West Yard and Excess East Yard properties were accepted into the VCP in 2003 and 2006, respectively.

Contact

For additional information, please contact the Land Restoration Program at (410) 537-3493.

Last Update: October 2009

90 Day Storage Area - Container Inspection Log

Date of inspection:	1/2/09	1/2/09	1/2/09	1/2/09	1/2/09
Inspected by:	MONDOWNEY	MONDOWNEY	MONDOWNEY	MONDOWNEY	MONDOWNEY
Container ID Number(s) inspected:					
	1320	0601	0658	0338	0619
Inspect each waste container for the following:	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)
Hazardous waste label	YES	YES	YES	YES	YES
Description of waste	F038	F038	F038	F038	F038
Label writing legible	YES	YES	YES	YES	YES
Accumulation start date	11/16/08	11/17/08	11/17/08	11/19/08	11/21/08
Container completely filled date	11/18/08	11/19/08	11/20/08	11/21/08	11/25/08
30 day - Samples taken for characterization, received					
60 Day - Must Take Action Date, Contact person notified					
90 Day - Must be shipped out before this date					
Characterization known and target date for removal established	YES F038	YES F038	YES F038	YES F038	YES F038
Bungs, lids, secured, water tight	N/A	N/A	N/A	N/A	N/A
Roll off cover in good condition, water tight, secured.	YES	YES	YES	YES	YES
Zero leaks, corrosion, bulging, zero residue on exterior	YES	YES	YES	YES	YES
Secondary containment provided for liquid containers	N/A	N/A	N/A	N/A	N/A
Secondary containment rain water removed for adequate containment	N/A	N/A	N/A	N/A	N/A
Contact name	B. BOBAK-D. GOULD	B. BOBAK-D. GOULD	B. BOBAK-D. GOULD	B. BOBAK-D. GOULD	B. BOBAK-D. GOULD
Container in shipable condition	YES	YES	YES	YES	YES

* If (not acceptable) condition noted, identify the condition and container number.
When the deficiency is corrected, note the date and corrective action taken.

90 Day Storage Area - Container Inspection Log

Date of inspection:	1/2/09	1/2/09			
Inspected by:	MONDOWNEY	MONDOWNEY			
Container ID Number(s) inspected:					
	00130	40950			
Inspect each waste container for the following:	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)	Acceptable (yes/no*)
Hazardous waste label	YES	YES			
Description of waste	F038	F038			
Label writing legible	YES	YES			
Accumulation start date	12/1/08	12/10/08			
Container completely filled date	12/13/08	12/12/08			
30 day - Samples taken for characterization, received					
60 Day - Must Take Action Date, Contact person notified					
90 Day - Must be shipped out before this date					
Characterization known and target date for removal established	YES F038	YES F038			
Bungs, lids, secured, water tight	N/A	N/A			
Roll off cover in good condition, water tight, secured.	YES	YES			
Zero leaks, corrosion, bulging, zero residue on exterior	YES	YES			
Secondary containment provided for liquid containers	N/A	N/A			
Secondary containment rain water removed for adequate containment	N/A	N/A			
Contact name	B. BOBAK-D. GOULD	B. BOBAK-D. GOULD			
Container in shipable condition	YES	YES			

* If (not acceptable) condition noted, identify the condition and container number.
When the deficiency is corrected, note the date and corrective action taken.

35 DAY MANIFEST LOG

HAZARDOUS WASTE SHIPMENTS

[illegible]

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MDD990686156	2. Page 1 of 1	3. Emergency Response Phone	4. Manifest Tracking Number 003901838 JJK
---	--	-------------------	-----------------------------	---

5. Generator's Name and Mailing Address
Chevron
1955 Cheseapeake Avenue
Baltimore, MD 21223

Generator's Site Address (if
SAME

Generator's Phone: **410-576-3727**

Attachment No. 5

6. Transporter 1 Company Name
Freehold Cartage Inc. (732) 462-1001

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address
Casie Ecology Oil Salvage, Inc.
3209 North Mill Road
Vineland, NJ 08360

U.S. EPA ID Number

Facility's Phone: **856-696-4401**

NJD045905693

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, Hazardous Waste Solid, N.O.S. (Benzo(a)pyrene) 9, NA3077, III	001	CM	48,580	P	R038		
	2.							
	3. Rec Pending Quota Insurance							
	4.							

14. Special Handling Instructions and Additional Information

ERG 171

CFI #9671-CH

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name: **Derric Hunter** Signature: *[Signature]* Month: **02** Day: **19** Year: **01**

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **Edmund Plamondon** Signature: *[Signature]* Month: **02** Day: **19** Year: **01**

Transporter 2 Printed/Typed Name: **Dan Terranova** Signature: *[Signature]* Month: **02** Day: **19** Year: **01**

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. **H141** 2. 3. 4.

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: **Edmund Plamondon** Signature: *[Signature]* Month: Day: Year:

Attachment No. 6

ANALYTICAL RESULTS**Prepared by:**

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

King George Landfill
10376 Bullock Drive
King George VA 22485

February 02, 2011

Project: Chevron Asphalt Terminal

Submittal Date: 01/13/2011

Group Number: 1228921

PO Number: 313230052270

State of Sample Origin: MD

Client Sample Description

Asphalt Mixed w/Soil Sample
Asphalt Mixed w/Soil Sample
Asphalt Mixed w/Soil Sample

Lancaster Labs (LLI) #

6182953
6182954
6182955

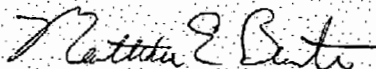
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC **Waste Management**
COPY TO

Attn: Brett Walquist

Questions? Contact Environmental Client Services

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Sample Description: Asphalt Mixed w/Soil Sample
Chevron Asphalt Terminal

LLI Sample # SW 6182953
LLI Group # 1228921
Account # 01907

Project Name: Chevron Asphalt Terminal

Collected: 01/10/2011 15:00

King George Landfill

10376 Bullock Drive

Submitted: 01/13/2011 09:15

King George VA 22485

Reported: 02/02/2011 15:25

ASPHA

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	54	1
10736	PCB-1221	11104-28-2	N.D.	75	1
10736	PCB-1232	11141-16-5	N.D.	75	1
10736	PCB-1242	53469-21-9	N.D.	54	1
10736	PCB-1248	12672-29-6	N.D.	54	1
10736	PCB-1254	11097-69-1	N.D.	54	1
10736	PCB-1260	11096-82-5	140 J	54	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

GC Miscellaneous		SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 microwave	n.a.	8,400 J	5,200	100

Reporting limits were raised due to interference from the sample matrix.

Wet Chemistry		SW-846 9095B			
01820	Paint Filter Test	n.a.	Negative		1

Wet Chemistry		SM20 2540 G	%	%	
00111	Moisture	n.a.	7.9	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs Soil 8082 Microwave	SW-846 8082	1	110180012A	01/24/2011 18:20	Lindsey K Lafferty	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	110180012A	01/18/2011 17:50	Sally L Appleyard	1
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	110140017A	01/19/2011 02:05	Marie D John	100
10942	Microwave Extraction-DRO soils	SW-846 3546	1	110140017A	01/16/2011 10:25	Karen L Beyer	1
01820	Paint Filter Test	SW-846 9095B	1	11024182001A	01/24/2011 21:00	Daniel S Smith	1
00111	Moisture	SM20 2540 G	1	11017820001A	01/17/2011 16:56	Scott W Freisher	1

Sample Description: Asphalt Mixed w/Soil Sample
TCLP NON-VOLATILE EXTRACTION
Chevron Asphalt Terminal

LLI Sample # TL 6182954
LLI Group # 1228921
Account # 01907

Project Name: Chevron Asphalt Terminal

Collected: 01/10/2011 15:00

King George Landfill

10376 Bullock Drive

Submitted: 01/13/2011 09:15

King George VA 22485

Reported: 02/02/2011 15:25

ASPHN

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C					
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.005	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.005	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.005	1
00949	4-Methylphenol	106-44-5	N.D.	0.010	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
00949	Nitrobenzene	98-95-3	N.D.	0.005	1
00949	Pentachlorophenol	87-86-5	N.D.	0.015	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.005	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.005	1
Herbicides SW-846 8151A					
00952	2,4-D	94-75-7	N.D.	0.0020	1
00952	2,4,5-TP	93-72-1	N.D.	0.00020	1
Pesticides/PCBs SW-846 8081A					
00950	Gamma BHC - Lindane	58-89-9	N.D.	0.000023	1
00950	Chlordane	57-74-9	N.D.	0.00035	1
00950	Endrin	72-20-8	N.D.	0.000020	1
00950	Heptachlor	76-44-8	N.D.	0.000020	1
00950	Heptachlor Epoxide	1024-57-3	N.D.	0.000018	1
00950	Methoxychlor	72-43-5	N.D.	0.00015	1
00950	Toxaphene	8001-35-2	N.D.	0.0050	1
Metals SW-846 6010B					
07035	Arsenic	7440-38-2	N.D.	0.0098	1
07046	Barium	7440-39-3	0.0089	0.00060	1
07049	Cadmium	7440-43-9	N.D.	0.0020	1
07051	Chromium	7440-47-3	N.D.	0.0034	1
07055	Lead	7439-92-1	0.0107 J	0.0069	1
07036	Selenium	7782-49-2	N.D.	0.0089	1
07066	Silver	7440-22-4	N.D.	0.0023	1
SW-846 7470A					
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: Asphalt Mixed w/Soil Sample
TCLP NON-VOLATILE EXTRACTION
Chevron Asphalt Terminal

LLI Sample # TL 6182954
LLI Group # 1228921
Account # 01907

Project Name: Chevron Asphalt Terminal

Collected: 01/10/2011 15:00

King George Landfill

10376 Bullock Drive

Submitted: 01/13/2011 09:15

King George VA 22485

Reported: 02/02/2011 15:25

ASPHN

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	11019WAI026	01/22/2011 03:17	Linda M Hartenstine	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	11019WAI026	01/20/2011 13:00	Olivia Arosemena	1
00952	TCLP Herbicides	SW-846 8151A	1	110200003A	01/21/2011 14:58	John W Perkins	1
00950	TCLP Pesticides 8081A	SW-846 8081A	1	110200004A	01/21/2011 17:43	Lisa A Reinert	1
11114	Pesticide Leachates Extraction	SW-846 3510C	1	110200004A	01/20/2011 13:30	Kelli M Barto	1
11110	Herbicide Leachates Extraction	SW-846 8151A	1	110200003A	01/20/2011 13:00	Olivia I Santiago	1
07035	Arsenic	SW-846 6010B	1	110195705001	01/20/2011 11:21	Eric L Eby	1
07046	Barium	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
07049	Cadmium	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
07051	Chromium	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
07055	Lead	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
07036	Selenium	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
07066	Silver	SW-846 6010B	1	110195705001	01/20/2011 05:39	John W Yanzuk II	1
00259	Mercury	SW-846 7470A	1	110195713001	01/19/2011 19:08	Nelli S Markaryan	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	110195705001	01/19/2011 20:00	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110195713001	01/19/2011 15:00	Nelli S Markaryan	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	11018-482-0947A	01/18/2011 15:25	Darin P Wagner	n.a.

Sample Description: Asphalt Mixed w/Soil Sample
TCLP ZERO HEADSPACE EXTRACTION
Chevron Asphalt Terminal

LLI Sample # TL 618295
LLI Group # 1228921
Account # 01907

Project Name: Chevron Asphalt Terminal

Collected: 01/10/2011 15:00

King George Landfill

Submitted: 01/13/2011 09:15

10376 Bullock Drive

Reported: 02/02/2011 15:25

King George VA 22485

ASPHZ

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	mg/l	mg/l	
03636	Benzene	71-43-2	N.D.	0.010	20
03636	2-Butanone	78-93-3	N.D.	0.060	20
03636	Carbon Tetrachloride	56-23-5	N.D.	0.020	20
03636	Chlorobenzene	108-90-7	N.D.	0.016	20
03636	Chloroform	67-66-3	N.D.	0.016	20
03636	1,2-Dichloroethane	107-06-2	N.D.	0.020	20
03636	1,1-Dichloroethene	75-35-4	N.D.	0.016	20
03636	Tetrachloroethene	127-18-4	N.D.	0.016	20
03636	Trichloroethene	79-01-6	N.D.	0.020	20
03636	Vinyl Chloride	75-01-4	N.D.	0.020	20

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	TCLP VOCs by 8260	SW-846 8260B	1	N110192AA	01/19/2011 15:29	Lauren C Temple	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N110192AA	01/19/2011 15:29	Lauren C Temple	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	11018-2341-0946	01/18/2011 15:25	Roza S Goslowska	n.a.

Quality Control Summary

Client Name: King George Landfill
Reported: 02/02/11 at 03:25 PM

Group Number: 1228921

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: N110192AA	Sample number(s): 6182955							
Benzene	N.D.	0.0005	mg/l	114		79-120		
2-Butanone	N.D.	0.003	mg/l	111		66-151		
Carbon Tetrachloride	N.D.	0.001	mg/l	110		75-123		
Chlorobenzene	N.D.	0.0008	mg/l	100		80-120		
Chloroform	N.D.	0.0008	mg/l	116		77-122		
1,2-Dichloroethane	N.D.	0.001	mg/l	112		70-130		
1,1-Dichloroethene	N.D.	0.0008	mg/l	114		74-123		
Tetrachloroethene	N.D.	0.0008	mg/l	97		80-121		
Trichloroethene	N.D.	0.001	mg/l	113		80-120		
Vinyl Chloride	N.D.	0.001	mg/l	80		65-125		
Batch number: 11019WAI026	Sample number(s): 6182954							
1,4-Dichlorobenzene	N.D.	0.005	mg/l	65		65-113		
2,4-Dinitrotoluene	N.D.	0.005	mg/l	94		81-115		
Hexachlorobenzene	N.D.	0.005	mg/l	102		81-118		
Hexachlorobutadiene	N.D.	0.005	mg/l	69		57-124		
Hexachloroethane	N.D.	0.005	mg/l	59		52-113		
2-Methylphenol	N.D.	0.005	mg/l	78		64-101		
4-Methylphenol	N.D.	0.010	mg/l	76		61-103		
Nitrobenzene	N.D.	0.005	mg/l	85		75-109		
Pentachlorophenol	N.D.	0.015	mg/l	79		53-110		
Pyridine	N.D.	0.010	mg/l	55		27-79		
2,4,5-Trichlorophenol	N.D.	0.005	mg/l	94		79-107		
2,4,6-Trichlorophenol	N.D.	0.005	mg/l	97		81-113		
Batch number: 110200003A	Sample number(s): 6182954							
2,4-D	N.D.	0.0020	mg/l	140*		45-128		
2,4,5-TP	N.D.	0.00020	mg/l	91		56-135		
Batch number: 110180012A	Sample number(s): 6182953							
PCB-1016	N.D.	3.3	ug/kg	105	108	72-120	3	50
PCB-1221	N.D.	4.6	ug/kg					
PCB-1232	N.D.	4.6	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	118	128	65-137	8	50
Batch number: 110200004A	Sample number(s): 6182954							
Gamma BHC - Lindane	N.D.	0.00002	mg/l	108		68-128		
Chlordane	N.D.	0.00035	mg/l					
Endrin	N.D.	0.00002	mg/l	67		52-132		
Heptachlor	N.D.	0.00002	mg/l	102		57-126		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: King George Landfill

Group Number: 1228921

Reported: 02/02/11 at 03:25 PM

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Heptachlor Epoxide	N.D.	0.00001	mg/l	108		65-133		
		8						
Methoxychlor	N.D.	0.00015	mg/l	95		52-133		
Toxaphene	N.D.	0.0050	mg/l					
Batch number: 110140017A	Sample number(s): 6182953							
TPH-DRO soil C10-C28 microwave	N.D.	4.0	mg/kg	92		76-117		
Batch number: 110195705001	Sample number(s): 6182954							
Arsenic	N.D.	0.0098	mg/l	112		89-115		
Barium	0.00064 J	0.00060	mg/l	92		90-110		
Cadmium	N.D.	0.0020	mg/l	100		90-112		
Chromium	N.D.	0.0034	mg/l	102		90-110		
Lead	N.D.	0.0069	mg/l	94		88-110		
Selenium	0.0096 J	0.0089	mg/l	116		80-120		
Silver	N.D.	0.0023	mg/l	101		83-120		
Batch number: 110195713001	Sample number(s): 6182954							
Mercury	N.D.	0.00005	mg/l	103		80-120		
		0						
Batch number: 11017820001A	Sample number(s): 6182953							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: N110192AA	Sample number(s): 6182955 UNSPK: P184325								
Benzene	134*	126	80-126	3	30				
2-Butanone	115	111	57-138	3	30				
Carbon Tetrachloride	122	117	81-138	4	30				
Chlorobenzene	105	104	87-124	1	30				
Chloroform	122	118	81-134	4	30				
1,2-Dichloroethane	120	116	66-141	3	30				
1,1-Dichloroethene	124	123	85-142	1	30				
Tetrachloroethene	106	104	80-128	2	30				
Trichloroethene	125	122	88-133	2	30				
Vinyl Chloride	88	87	66-133	2	30				
Batch number: 11019WAI026	Sample number(s): 6182954 UNSPK: P183153								
1,4-Dichlorobenzene	64*	63*	69-116	1	30				
2,4-Dinitrotoluene	94	94	70-124	0	30				
Hexachlorobenzene	99	100	77-122	1	30				
Hexachlorobutadiene	66*	70	68-123	7	30				
Hexachloroethane	59	56	41-125	5	30				
2-Methylphenol	82	80	10-146	3	30				
4-Methylphenol	72	73	10-147	1	30				
Nitrobenzene	91	92	42-152	1	30				
Pentachlorophenol	81	82	23-133	1	30				
Pyridine	58	58	18-83	0	30				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: King George Landfill

Group Number: 1228921

Reported: 02/02/11 at 03:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup Rf Max
2,4,5-Trichlorophenol	94	96	32-144	2	30				
2,4,6-Trichlorophenol	95	98	37-147	3	30				
Batch number: 110200003A	Sample number(s): 6182954 UNSPK: P183157								
2,4-D	130	110	13-170	17	30				
2,4,5-TP	110	100	57-151	10	30				
Batch number: 110200004A	Sample number(s): 6182954 UNSPK: P185044								
Gamma BHC - Lindane	112	102	42-137	9	30				
Endrin	117	108	60-145	7	30				
Heptachlor	114	106	54-135	7	30				
Heptachlor Epoxide	112	103	43-143	9	30				
Methoxychlor	125	110	44-147	13	30				
Batch number: 110140017A	Sample number(s): 6182953 UNSPK: P181964 BKG: P181964								
TPH-DRO soil C10-C28 microwave	31		30-159			150	150	0 (1)	20
Batch number: 110195705001	Sample number(s): 6182954 UNSPK: P183164 BKG: P183164								
Arsenic	103	106	75-125	3	20	N.D.	N.D.	0 (1)	20
Barium	92	96	75-125	4	20	0.486	0.520	7	20
Cadmium	91	93	75-125	3	20	N.D.	N.D.	0 (1)	20
Chromium	92	94	75-125	3	20	0.0643	0.0683	6 (1)	20
Lead	86	88	75-125	3	20	N.D.	N.D.	0 (1)	20
Selenium	109	112	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	76	74*	75-125	2	20	N.D.	N.D.	0 (1)	20
Batch number: 110195713001	Sample number(s): 6182954 UNSPK: P183164 BKG: P183164								
Mercury	86	83	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 11017820001A	Sample number(s): 6182953 BKG: P183535								
Moisture						34.4	32.1	7	15

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCLP VOCs by 8260

Batch number: N110192AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6182955	106	104	92	96
Blank	105	103	93	94
LCS	105	104	97	101
MS	105	104	95	102
MSD	103	102	96	100

Limits: 80-116 77-113 80-113 78-113

Analysis Name: TCLP Acid Base/Neutrals

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: King George Landfill
Reported: 02/02/11 at 03:25 PM

Group Number: 1228921

Surrogate Quality Control

Batch number: 11019WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
6182954	84	82	84	37	57	102
Blank	81	84	81	43	65	94
LCS	83	93	84	43	65	92
MS	84	92	70	41	47	96
MSD	86	95	72	40	48	99
Limits:	64-121	63-114	47-114	10-74	10-98	34-145

Analysis Name: PCBs in Soil (microwave)
Batch number: 110180012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6182953	81	81
Blank	123	121
LCS	128	124
LCS	136	131
Limits:	53-139	53-142

Analysis Name: TCLP Herbicides
Batch number: 110200003A
2,4-Dichlorophenylacetic acid

6182954	93
Blank	86
LCS	89
MS	114
MSD	110
Limits:	35-144

Analysis Name: TCLP Pesticides 8081A
Batch number: 110200004A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6182954	115	104
Blank	114	108
LCS	119	113
MS	102	113
MSD	107	108
Limits:	52-141	44-146

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 110140017A
Orthoterphenyl

6182953	53*
Blank	100
DUP	96
LCS	113
MS	101

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: King George Landfill

Group Number: 1228921

Reported: 02/02/11 at 03:25 PM

Surrogate Quality Control

Limits: 59-129

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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NON-HAZARDOUS/RECYCLED/BILL OF LADING WASTE TRACKING LOG

Terminal Name: Baltimore
Calendar Year: 2011 – 1st Quarter

EPA ID Number: MD0001449

Date of Shipment	Manifest/bill of Lading #	Waste Source	Selected Waste Facility	Profile Number	Est. Vol. Shipped (*G,P,T)	Unit	Vol. rec. at Disposal Facility (*G,P,T)	Unit	Date Manifest Rec. from Disposal Site
2/22/2011	APV 061925	Tank 601	FCC Environmental		1600	G			
2/24/2011	022411	Tank 601	Wm-King George Landfill	101025VA	20.5	T			3/16/2011
2/24/2011	022411A	Tank 601	Wm-King George Landfill	101025VA	17.51	T			3/16/2011
3/23/2011	032311	Front dock line	Wm-King George Landfill	101026VA	8.34	T			
3/24/2011	032411	Front dock line	Wm-King George Landfill	101026VA	9.80	T			
3/24/2011	032411A	Front dock line	Wm-King George Landfill	101026VA	9.06	T			

*G=Gallons, P=Pounds, T=Tons, Y=cubic Yards

Attachment No. 7

3/16/11

NON-HAZARDOUS WASTE MANIFEST 022411A

101025VA

Special Waste Application/Approval Number

Solid Debris

Waste Description

Chevron USA INC

Generator of Waste

Baltimore, Maryland

City / State

30 X 10 ROLL OFF @ 17.51 TONS

1955 Chesapeake AVE

Address

Curtis Bay

CITY

MD

State

21226

Zip

732-738-2118

Phone

Stephen Barrow

Contact

I hereby warrant that the above named material is the same material as represented on the Special Waste Disposal Application identified by the above Waste Management Code and such material was delivered to the transporter on the shipment date referenced below.

MONDOWNEY
Generator's Authorized Agent (print/type)

[Signature]
Signature of Generator's Authorized Agent

2/24/11
Shipment Date

Chevron Environmental

Customer

1200 State ST

Address

Perth Amboy

City

NJ

State

8861

zip

732-738-2118

Phone

Stephen Barrow

Contact

Transporter of Waste

Bosmans Inc

Date

2/24/11 [Signature]

744

Truck Number

645-F36 MD

License Number

Signature of Transporter

WM-King George

Disposal Facility

10376 Bullock Drive-King George

Address

VA

State

540-775-3123

Ph. No.

Received By

[Signature] 2-24-11



Photo No. 1 – Chevron Baltimore Asphalt Terminal

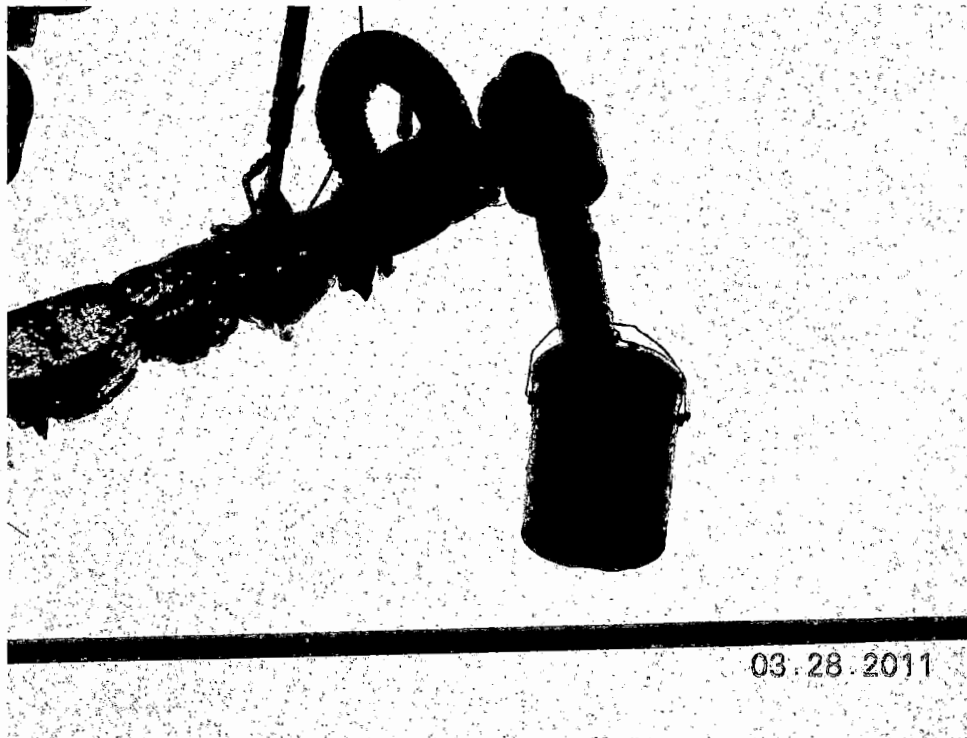


Photo No. 2 – Chevron Baltimore Asphalt Terminal

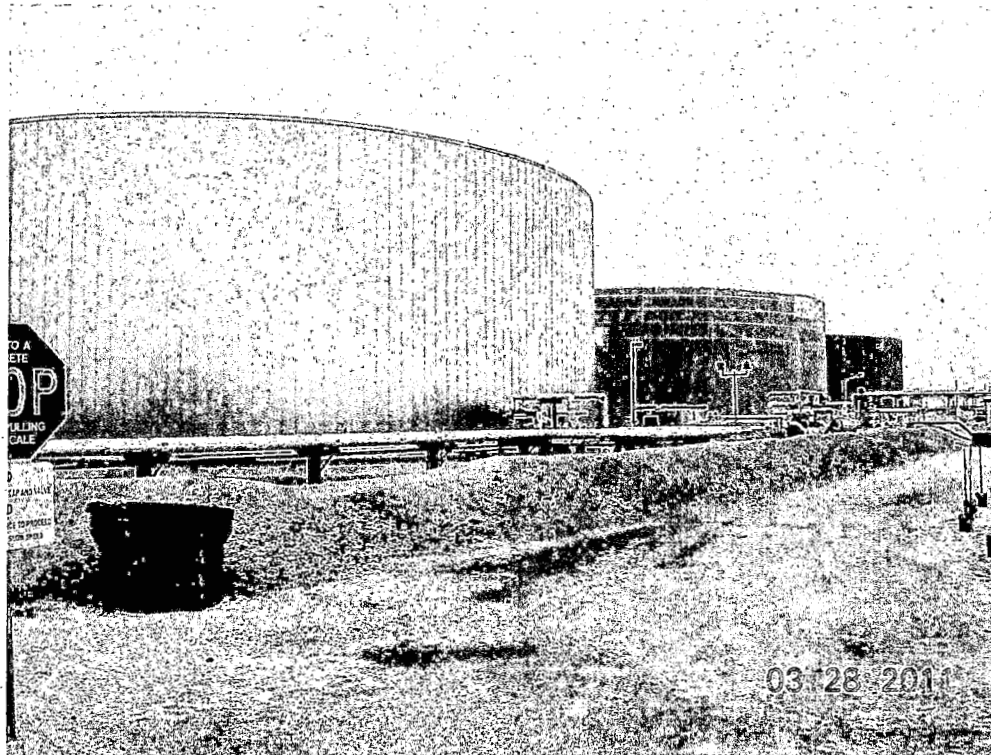


Photo No. 3 – Chevron Baltimore Asphalt Terminal

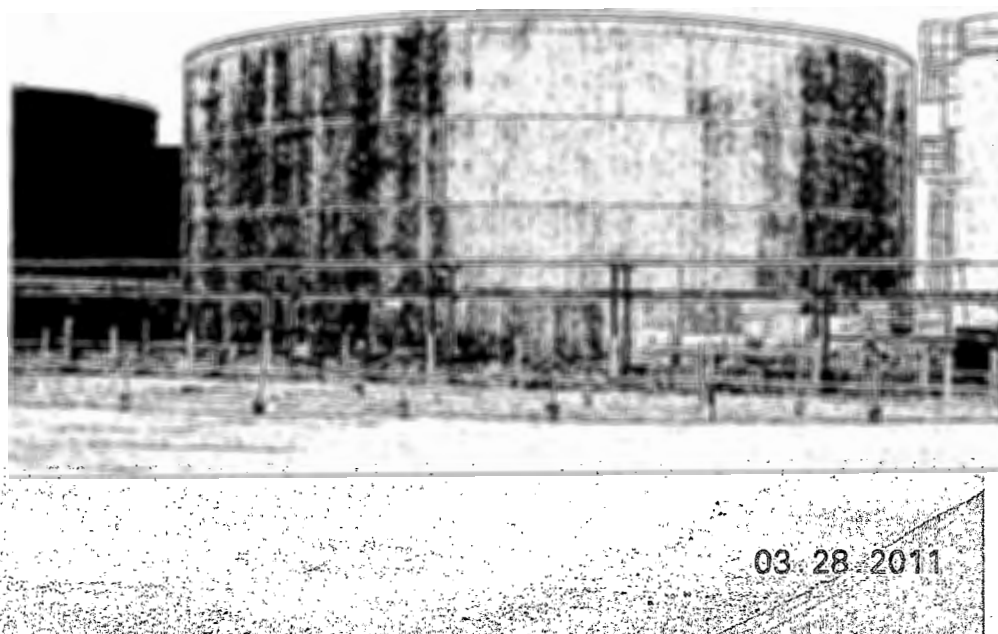


Photo No. 4 – Chevron Baltimore Asphalt Terminal

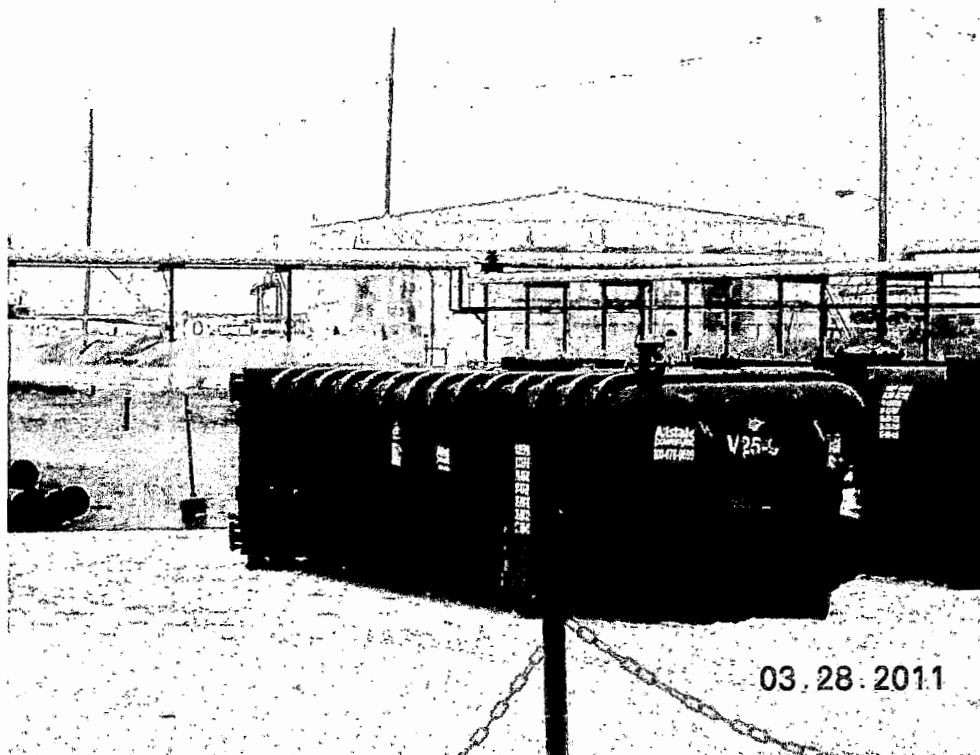


Photo No. 5 – Chevron Baltimore Asphalt Terminal

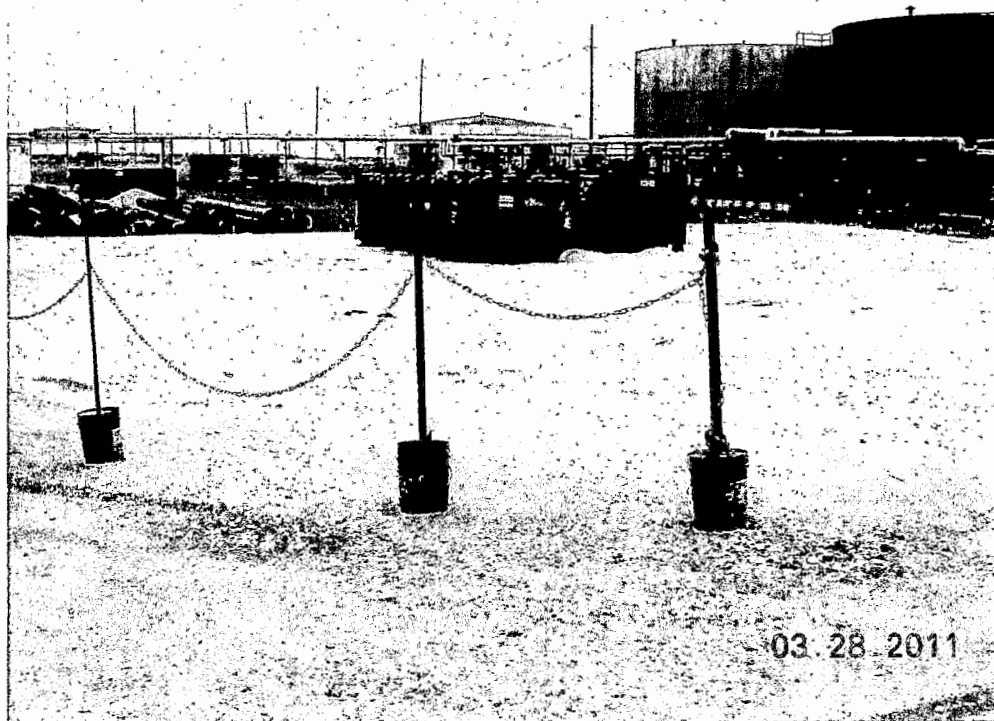


Photo No. 6 – Chevron Baltimore Asphalt Terminal



Photo No. 7 – Chevron Baltimore Asphalt Terminal



Photo No. 8 – Chevron Baltimore Asphalt Terminal

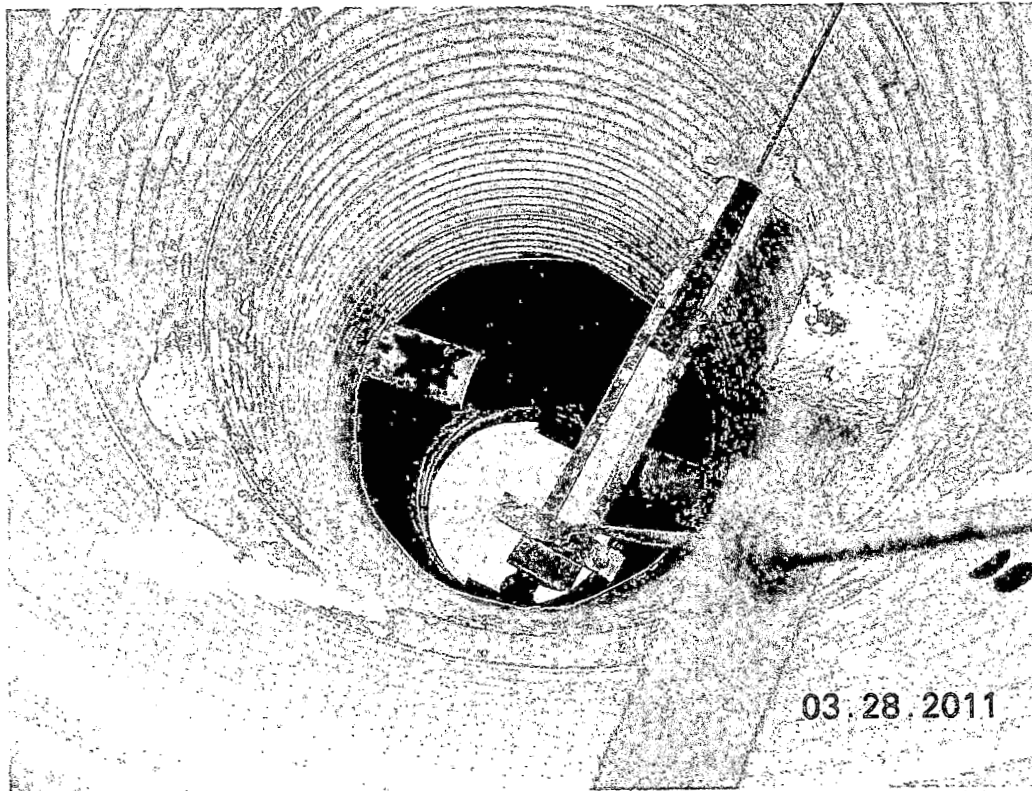


Photo No. 9 – Chevron Baltimore Asphalt Terminal



Photo No. 10 – Chevron Baltimore Asphalt Terminal